

PATENT

Serial No. 10/538,628

Amendment in Reply to Office Action mailed on August 22, 2006

NEW ABSTRACT

A repetitive controller for suppressing periodic signals with half-wave symmetry includes a memory loop fed with a periodic signal of period  $NT$  and in which the memory size includes  $N/2$  memory elements. A negative feedback connection is provided and a factor of  $-1/2$  is provided at the output of the memory loop. Such a repetitive controller may be used for instance in the disturbance compensation module of a drive servo system in a recording and reproducing apparatus including a head for recording data on a recording medium.

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IN THE ABSTRACT

Please delete the current Abstract in its entirety and  
substitute therefor the enclosed New Abstract.